

International (PCT) Patent Application No: PCT/GB2004/002609
{ex GB 0314815.2}
'Bag In Box'
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Claim Amendment 25 April 2005

Claims 1 through 22 as originally filed retained + repeated for reference;
Supplementary Claims 23 through 28 entered:

1.
A Bag In Box (BIB) container [package] (10)
- for flowable materials,
including liquid, solid powders or particles -
with an inner (contents) bag liner (12)
locatable within an outer box carton (11)
has a neck piece (14),
between a bag neck (13) and carton aperture (24).
2.
A container package, as in Claim 1,
with a carton lid flap
incorporating cuts, creases or folds
to allow folding as an inset ledge or recessed shelf,
with a cut-out or aperture for a bag neck,
and a neck piece configured as a shallow tray,
to sit within the shelf recess,
to accommodate a protruding bag neck
within a uniform, say rectangular, overall carton form.
3.
A container package, as in either preceding claim,
with a retractable (fold-out) pourer spout.
4.
A container package, as in any preceding claim,
with a retractable (fold-out) handle.
5.
A container package, as in any preceding claim,
with a lockable closure.
6.
A container package, as in any preceding claim,
with discrete neck piece insert.
7.
A container package, as in any preceding claim,
with neck piece (part) integrated with box carton.
8.
A container package, as in any preceding claim,
with neck piece (part) integrated with bag liner insert.

9.

A container package, as in any preceding claim, with a frangible tamper-evident seal, about a removable closure.

10.

A container package, as in any preceding claim, with a box carton of moisture resistant material, such as a sealed or coated board, or synthetic plastics.

11.

A container package, as in any preceding claim, with a reinforced box carton material, such as laminated, corrugated or fibre stranded.

12.

A container package, substantially as hereinbefore described, with reference to, and as shown in, the accompanying drawings.

13.

A BIB container package,
- for liquid or flowable material (contents) -
comprising a bag inner liner
and a box carton outer (shell);
with a bag (neck) location and support element,
configured as any one, or a combination of:

- discrete insert,
- element integral with the bag,
or some part of the bag,
such as the bag neck or neck rim,
- element integrated with the carton,
or some part of the carton,
such as an end flap;

to create a (shallow) recess for a protruding bag neck.

14.

A pre-formed, neck piece for a container,
as claimed in any preceding claims.

15.

A container comprising
an outer box or carton
with an edge recessed panel
and an internal bag liner
located and retained within the carton
by a neck support collar
such that a protruding bag neck

is inset within the recess.

16.
A BIB carton,
with box or carton outer wrap, sleeve or case
and bag inner liner element
mutually juxtaposed and entrained
preparatory to bag contents fill.

17.
A BIB carton of Claim 16
with a pre-fabricated handle.

18.
A BIB carton of Claim 16
with integrated neck collar and handle moulding.

19.
A BIB carton of Claim 16
with integral moulded collar and bag neck.

20.
A location and/or retention element
for juxtaposition or interposition between
bag liner and outer box or carton.

21.
A BIB carton
with a location and/or retention element of Claim 20
captive to a bag neck and entrained by a neck rim.

22.
A BIB assembly of juxtaposed
bag inner and box outer elements
mutually entrained by an intermediate element.

Supplementary claims ...

23.
A Bag In Box (BIB) carton container,
with a carton panel profile and panel aperture
to accommodate a discrete neck piece or collar
configured as a shallow tray,
to sit within the outer carton profile,
to accommodate and retain a bag neck
protruding into the tray
for ease of neck access in contents fill and discharge
and closure cap installation and removal
yet inset within a rectilinear, say rectangular, overall carton form

24.
A container of Claim 23,
with a neck piece configured as a local spillage barrier

over an underlying carton wall portion
upon contents fill and discharge.

25.

A container of Claim 23,
with a spillage tray
open along an exposed edge
at a carton side
to allow spillage egress.

26.

A container of Claim 23,
with a closed tray
for spillage containment
around a neck spout
inset from carton top bounding edges.

27.

A container of Claim 23
with depending tray edge flanges
to wrap around and locate upon carton edges
bounding a carton panel aperture
to inhibit neck or collar rotation.

28.

A container of Claim 23,
configured for use with standard
rigid-walled container handling and fill equipment
to allow fill-line substitution or interchange
with BIB cartons.